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1. International Station Meteorological Climate Summary (ISMCS) Ver 4.0.

This CD-ROM gives detailed climatological summaries for 2600 locations worldwide. These locations include National Weather Service locations, domestic and overseas Navy and Air Force sites, and selected foreign stations. Limited summaries are also given for almost an additional 4,000 worldwide sites. Tabular or statistical data can be exported to a printer or spreadsheet. Joint NCDC, USAF and U.S. Navy product. This version also contains year/month and long term mean precipitation data for 1000 foreign locations \$ **175.00**

2. National Climate Information Disc-Vol 1.

This CD-ROM has monthly sequential temperature, precipitation, and drought data for the 344 climate divisions in the contiguous U.S. The data can be viewed in a tabular or graphical format and output sent to a printer. The CD-ROM covers the period 1895-1989 and contains 1032 time-series graphs, 4180 maps, and 5400 frames of video animation. NCDC product.. \$ **175.00**

3. U.S. Navy Marine Climatic Atlas of the World - Ver 1.1.

This CD-ROM includes analysis and display software for climatological averages of atmospheric and oceanographic data. The data are summarized with user-defined 1 and 5 degree grid areas covering the global marine environment. The summaries are produced using predominately ship data collected between 1854-1969. The major elements include air and sea temperature, dewpoint temperature, scalar wind speed, sea-level pressure, wave height, wind and ocean-current roses. This CD-ROM allows the user to define element intervals (e.g. 5 to 10 knots, 2 degree temperature intervals). The CD-ROM also allows contouring for explicitly user-defined regions and exporting data to a printer or diskette. Narratives for Mediterranean ports and ocean basin climatology narratives are included in this updated version. U.S. Navy sponsored product \$ **175.00**

4. Global Upper Air Climatic Atlas (GUACA) - Ver 1.0.

This two-volume CD-ROM set uses 12-year (1980-1991) 2.5 degree gridded upper air climatic summaries derived from the European Centre for Medium Range Weather Forecasts (ECMWF) model analyses. The CD-ROM presents upper air statistics for 15 different vertical levels in the Northern and Southern Hemisphere for dry bulb and dewpoint temperature, geopotential height, air density, and vector and scalar wind speed. The CD-ROM provides access/display software for gridpoint data, contouring capability for user-defined areas, and vertical profiles. The climatology covers the 12-year period as well as individual year-months. Joint NCDC and U.S. Navy product. \$ **350.00**
 ASCII data CD ROM without graphic interface covering 1980-95 (GUAS)..... \$ **100.00**

5. Historical U.S. Climate Data (CLIVUE/CLISNOOP) - Ver 1.0.

The National Climatic Data Center (NCDC) developed a CD-ROM in support of a museum exhibit which traveled across the U.S. The CD contains a 1,500-station subset of NCDC's nearly 8,000 U.S. daily cooperative stations. The user selects a date and area of the U.S. and the CD-ROM database is queried for stations within the specified domain having data. Then, the system displays daily maximum and minimum temperatures, precipitation, and snowfall for the site. Graphs showing 7 years, 21 years, and the full period of record (varies by station) for the station (s) are available. Visual displays allow users to view trends, variability, and extremes. Joint NCDC and Franklin Institute product. \$ **175.00**

6. Solar and Meteorological Surface Observational Network (SAMSON) - Ver 1.0.

This 3 CD-ROM set is divided geographically into regions: eastern, central, and western U.S. It contains hourly solar radiation data along with selected meteorological elements for the period 1961-1990. It encompasses 237 NWS stations in the United States, plus offices in Guam and Puerto Rico. The dataset includes both observational and modeled data. The hourly solar elements are: extraterrestrial horizontal and extraterrestrial direct normal radiation; global, diffuse, and direct normal radiation. Meteorological elements are: total and opaque sky cover, temperature and dewpoint, relative humidity, pressure, wind direction and speed, visibility, ceiling height, present weather, precipitable water, aerosol optical depth, snow depth, days since last snowfall, and hourly precipitation. Joint NCDC and NREL product. Individual U.S. regions (specify Eastern, Central, or Western) \$ **175.00**
 Complete Set..... \$ **525.00**

7. Radiosonde Data of North America 1946-1995 (Version 1.0)

Contains all available radiosonde data for North America (U.S., Canada, Mexico, and Caribbean Islands) through the 100-mb level on four disks. Periods covered are: 1946-1965, 1966-1979, 1980-1989, and 1990-1995. Data includes significant, mandatory, and special wind levels for all observation times, and includes geopotential height, temperature, dewpoint, wind direction, and scalar speed. The user can select for output to printer, screen, or file: a single station or multiple stations for a defined time period, or all stations within a specified geographic region in either synoptic or station sort. Also contains available station metadata. Joint NCDC and ERL product. Four disk set..... \$ **700.00**
 Latest volume (1990-1995)..... \$ **175.00**

8. Global Tropical and Extratropical Cyclone Climatic Atlas (GTECCA) - Version 2.0).

This single volume CD-ROM contains all global historic tropical storm track data available for five tropical storm basins. Periods of record vary for each basin, with the beginning as early as the 1870s and with 1995 as the latest year. Northern hemispheric extratropical storm track data are included from 1965 to 1995. Tropical track data includes time, position, storm stage (and maximum wind, central pressure when available). The user has the capability to display tracks, and track data for any basin or user-selected geographic area. The user is also able to select storm tracks passing within a user-defined radius of any point. Narratives for all tropical storms for the 1980-1995 period are included along with basin-wide tropical storm climatological statistics. Joint NCDC and U.S. Navy product. Requires 520K of RAM memory..... \$ **175.00**

*TDD = Telecommunications Device for the Deaf

9. Global Daily Summary (GDS).

This CD-ROM provides access to a 10,000-station set of daily maximum/minimum temperature, daily precipitation, and 3-hourly present weather for the 1977-1991 period of record. Data can be selected for viewing or output to file for geographic areas or by a predefined user-selected list of stations. The dataset includes element flags for suspected erroneous data. A data inventory contains station name, latitude/longitude, elevation, period of record, and the number of observations of available data. Requires a bare minimum of 4 MB of RAM, with 8MB of RAM recommended for superior performance..... \$ **175.00**

10. Global Historical Fields (GHF) - Ver. 1.0.

This version has no data for the Southern Hemisphere. This CD-ROM allows users to view daily surface charts for the period 1899 through April 1994. Daily upper air charts (700mb, 500mb, 300mb) are available from the late 1940's through April 1994. Surface charts contour sea level pressure only (not station plots); upper air charts contour geopotential heights and temperatures. Users can contour, loop, or export charts to a file or printer. Joint NCDC and U.S. Navy product..... \$ **175.00**

11. U.S. Divisional and Station Climatic Data and Normals (USDS) - Vol 1.0.

This NCDC CD-ROM contains a collection of ASCII text data and documentation files that pertain to the U.S. climate normals and by-products of the normals. Climatic variables include temperature, precipitation, degree days, and Palmer Drought Indices. The current normals period of 1961-1990 is covered with monthly values calculated for approximately 6600 precipitation and 4700 temperature stations. The earlier data/normals are provided for comparison and research applications. This CD-ROM contains no software or extraction routines that allow users to import the data directly into spreadsheets or other applications. Format and description of the files match NCDC magnetic tape series TD-9640 and TD-9641..... \$ **100.00**

12. NCDC Cooperative Station Data

This NCDC 21 volume CD-ROM set has TD-3200 cooperative station data. Major elements included daily high and low temperatures, daily rainfall, daily snowfall and snow depth, and evaporation. General periods of record is 1948-1993, but longer for selected stations. There are approximately 8000 active stations in the dataset. Historically, approximately 23,000 stations are included for various years. States are grouped geographically into volume numbers. The set contains inventories, station histories, and ASCII data files. Joint NCDC and ARL project. An extraction program is provided on a diskette
Per Volume..... \$ **100.00**
Complete Set..... \$ **1300.00**
1994 and 1995 combined update..... \$ **100.00**

13. Hourly Modeled Sounding Data

This 12 volume CD-ROM set contains hourly 80 KM modeled gridpoint U.S. sounding data for 1990. This data is the output from the Penn State University MM4 model which used available daily sounding data for 1990 as input. Wind, temperature, dewpoint depression, and geopotential height data for 8 standard and 15 variable levels are included in the NWS TTAA, TTBB format. One of the applications of this CD-ROM is to access air pollution impacts on a local scale. Joint NCDC and ARL product. Sold only as a Set..... \$ **600.00**

14. Coastal-Marine Automated Network (C-MAN) Station and Buoy Reports and Summarized Elements (SeaBreeze)

This two volume CD-ROM set contains climatic summaries and archived observations measured by National Data Buoy Center (NDBC) moored buoys and C-MAN stations for 197 sites. The period of record generally covers a 3-20 year period depending on the station and ends with December 1993. The two volume set consists of archived observations and climatic summary tables. All measurements are included except for spectral wave data and subsurface measurements. A map shows station locations and data inventories show measurements and time periods for each station. The following elements are summarized: monthly frequency distributions of wind speed, wind gust, sea level pressure, air and sea temperature, air-sea temperature difference, dew point (where available), significant wave height, average and dominant wave period. Additional tables include: wind speed versus direction, significant wave height versus dominant and average wave periods, significant wave height versus wind speed. The individual monthly means and extremes for all measurements are included. Stations with less than 3 years of data will only have individual monthly means and extremes summarized. Joint NCDC and NDBC product. Requires 420K of RAM memory. This item is sold only as a set and is for DOS use only..... \$ **350.00**

15. Polar Ice CD-ROM

The Arctic and Antarctic Sea Ice Data CD-ROM Version 1.0, contains weekly ice data in the International Sea Ice in the Digital Form (SIGRID) format for 1972-1994 for the Arctic and 1973-1994 for the Antarctic. This .25 degree grid structure includes total ice concentration, thickness stage, and form of ice for the complete period of record. The SIGRID format was designed to meet the sea ice requirements of large-scale climate and statistical studies. The CD-ROM contains no display or extraction routines. The SIGRID reference file provides detailed information concerning the coding system for digitizing sea ice chart data. Joint NCDC, U.S. Navy, National Ice Center product. DOS but can be converted to UNIX..... \$ **100.00**

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